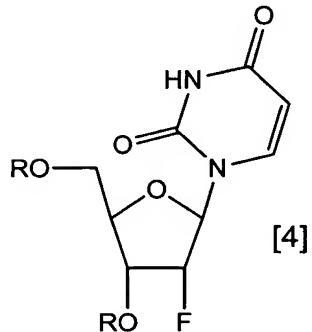


Amendments to the Claims:

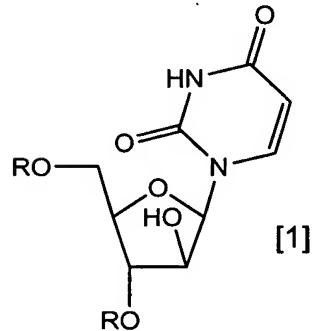
The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

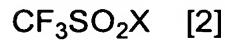
1. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [4],



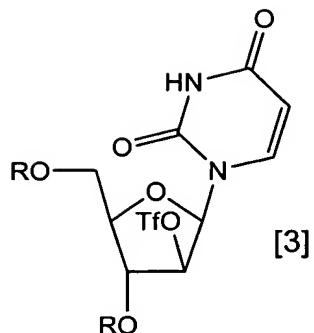
~~in the formula, wherein R represents a protecting group of hydroxyl group →~~
by reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form,
represented by the formula [1],



~~in the formula, wherein R represents a protecting group of hydroxyl group →~~
with a trifluoromethanesulfonylating agent represented by the formula [2],

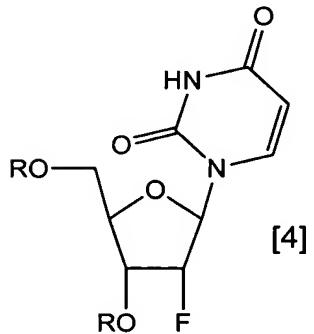


~~in the formula, wherein X represents a F atom, Cl atom or CF_3SO_3 group →~~, in
the presence of an organic base, to convert it to a 2'-triflate form represented by
the formula [3],

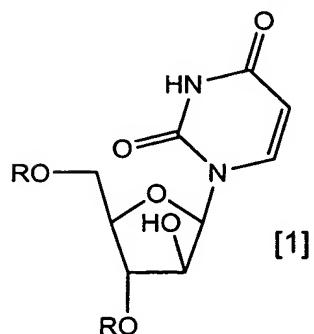


~~in the formula, wherein~~ R represents a protecting group of hydroxyl group, and Tf represents a CF_3SO_2 group -- , followed by reacting with a fluorinating agent comprising ["] a salt or complex comprising an organic base and hydrofluoric acid ["] .

2. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [4],

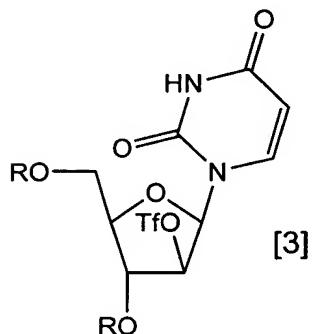


~~in the formula,~~ R represents a protecting group of hydroxyl group -- by reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by the formula [1],



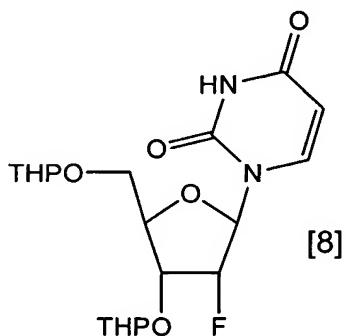
[in the formula, wherein R represents a protecting group of hydroxyl group → with a trifluoromethanesulfonylating agent represented by the formula [5], $\text{CF}_3\text{SO}_2\text{F}$ [5]

in the presence of triethylamine, to convert it to a 2'-triflate form represented by the formula [3],

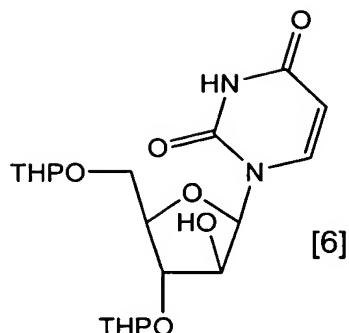


[in the formula, wherein R represents a protecting group of hydroxyl group, and Tf represents a CF_3SO_2 group →, followed by reacting with a fluorinating agent comprising ["] a salt or complex comprising triethylamine and hydrofluoric acid ["] .

3. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [8],

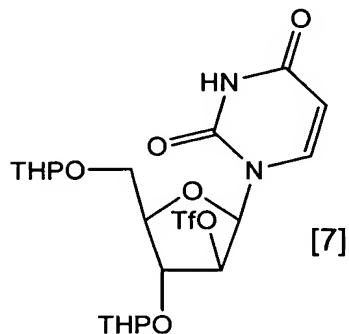


[in the formula, wherein THP represents a tetrahydropyranyl group → by reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by the formula [6],



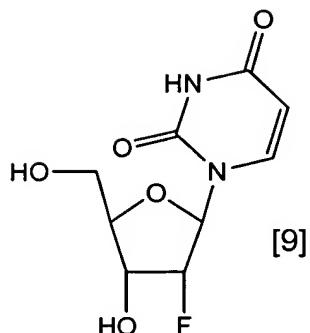
~~in the formula, wherein THP represents a tetrahydropyranyl group~~ — with a trifluoromethanesulfonylating agent represented by the formula [5],
 $\text{CF}_3\text{SO}_2\text{F}$ [5]

in the presence of triethylamine, to convert it to a 2'-triflate form represented by the formula [7],

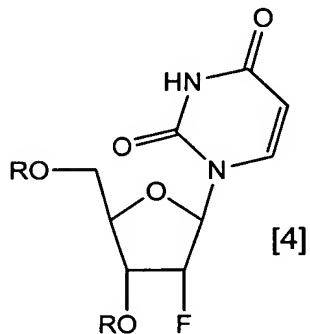


~~in the formula, wherein THP represents a tetrahydropyranyl group, and Tf represents a CF_3SO_2 group~~ , followed by reacting with a fluorinating agent comprising ["] a salt or complex comprising triethylamine and hydrofluoric acid ["] .

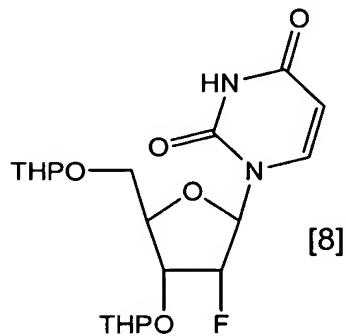
4. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],



by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],

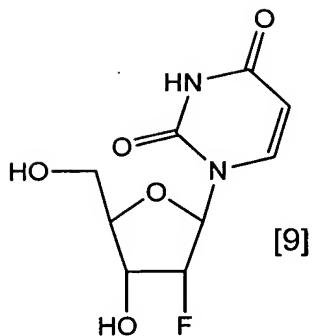


[in the formula, wherein R represents a protecting group of hydroxyl group — or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],

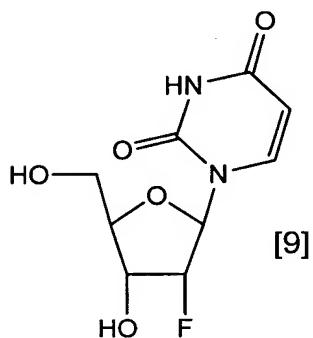


[in the formula, wherein THP represents a tetrahydropyranyl group —, which has been produced by any the process of claim 1, ~~claim 2 and claim 3~~, with a deprotecting agent.

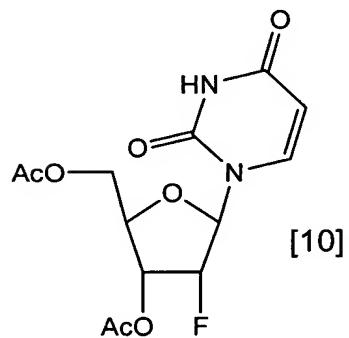
5. (Currently amended) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine represented by the formula [9],

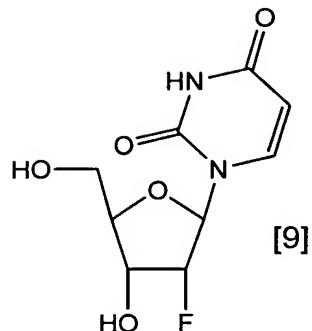


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],

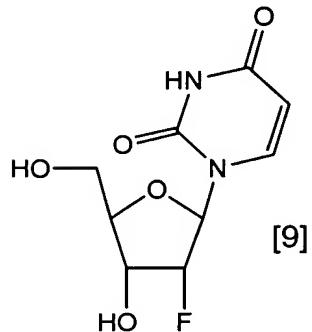


in the formula, wherein Ac represents an acetyl group —C(=O)CH₃, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

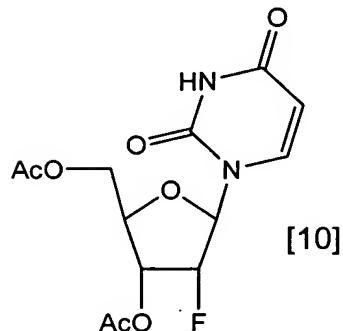
6. (Currently amended) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 4 and is represented by the formula [9],

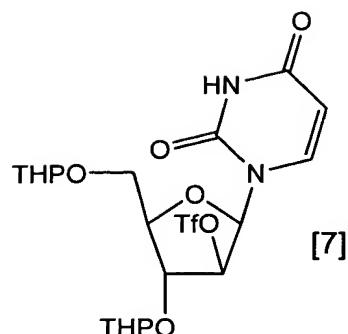


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],



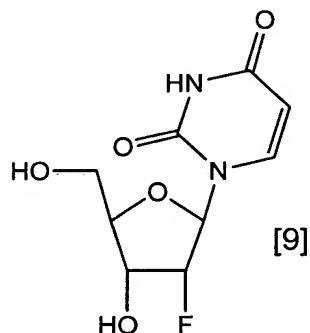
~~in the formula, wherein Ac represents an acetyl group —~~, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

7. (Currently amended) A 2'-triflate form represented by the formula [7],

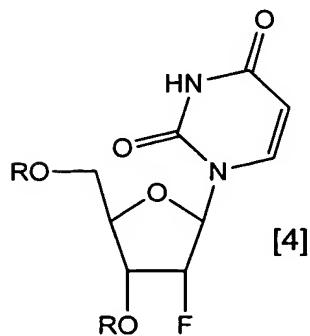


[in the formula, wherein THP represents a tetrahydropyranyl group, and Tf represents a CF_3SO_2 group —].

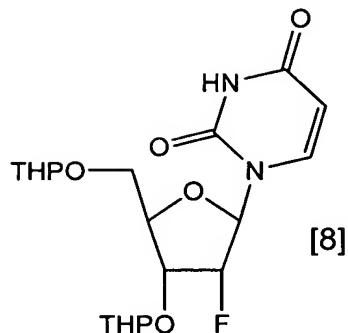
8. (New) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],



by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],

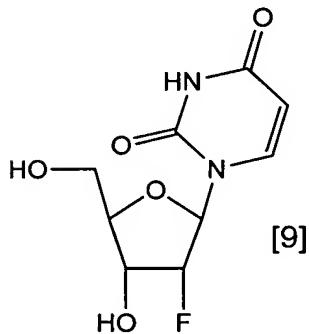


wherein R represents a protecting group of hydroxyl group or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],

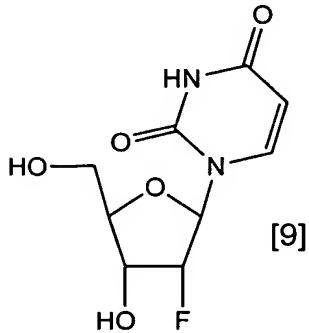


wherein THP represents a tetrahydropyranyl group, which has been produced by the process of claim 2, with a deprotecting agent.

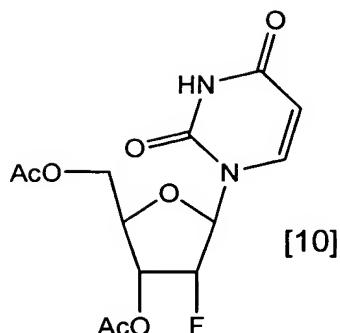
9. (New) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 8 and is represented by the formula [9],

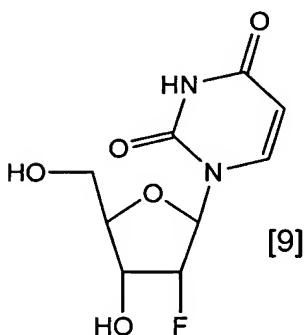


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],

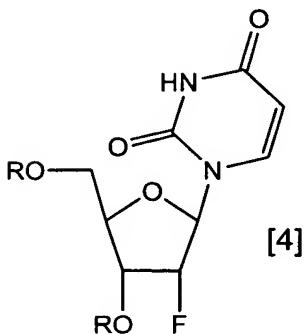


wherein Ac represents an acetyl group, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

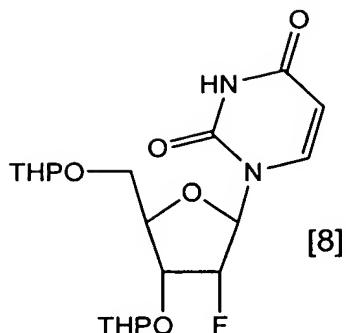
10. (New) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],



by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],

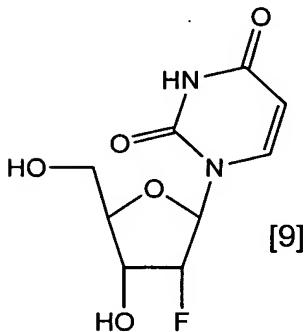


wherein R represents a protecting group of hydroxyl group or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],

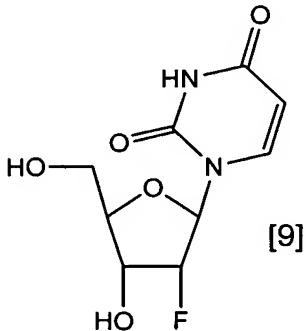


wherein THP represents a tetrahydropyranyl group, which has been produced by the process of claim 3, with a deprotecting agent.

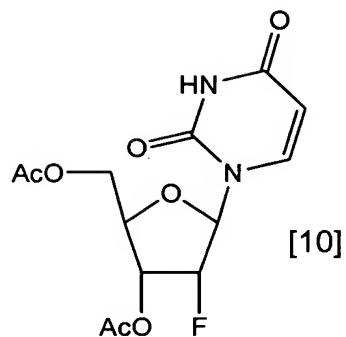
11. (New) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 10 and is represented by the formula [9],



with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],



wherein Ac represents an acetyl group, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.